REPORT OF THE UTILITIES DEPARTMENT

of

THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

DOCKET NO. 97-003-E
CAROLINA POWER & LIGHT COMPANY

REPORT OF UTILITIES DEPARTMENT SOUTH CAROLINA PUBLIC SERVICE COMMISSION

DOCKET NO. 97-003-E

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REPORT OF UTILITIES DEPARTMENT SOUTH CAROLINA PUBLIC SERVICE COMMISSION

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CAROLINA POWER & LIGHT COMPANY

REPORT OF FUEL ADJUSTMENT ANALYSIS

Scope of Examination

The Commission's Utilities Department Staff analyzed the Company's procedures and practices pertaining to its fuel operation. Staff's examination consisted of the following:

- 1) Review of the Company's monthly fuel reports including:
 - a) Power Plant Performance Data Reports
 - b) Major Unit Outage Reports
 - c) Generation Mix
 - d) Generation Statistics
 - e) Retail Comparison of MWH Sales
 - f) Retail Comparison of Fuel Costs
 - 2) On-site inspection of the Company's coal quality sampling technique.
 - 3) Review of the Company's currently approved Adjustment for Fuel Costs Rider.
 - 4) History of Cumulative Recovery Account
 - 5) Calculation of fuel costs to be included in the base rates April 1997 through March 1998.

REVIEW OF COMPANY'S MONTHLY FUEL REPORTS

The Company files with this Commission monthly reports that include power plant performance data, major unit outages, generation mix, and other reports that provide the Staff pertinent data on which to evaluate the Company's fuel operating expenses.

Reports for nuclear and fossil plants is shown on Exhibit No. 1. It includes a listing of capacity factors and equivalent availability factors for each unit by month for the period and also includes the yearly capacity factors (1994-1996) and the lifetime (cumulative) capacity factors. These factors are expressed as a percentage. This percentage figure can be a useful index when attempting to locate or identify a particular problem or unusual occurrence.

(Supp. 1996) Pursuant to S.C. Code Ann. Section 58-27-865 certain criteria are established for review of a utility's effort to minimize fuel expenses. In evaluating a utility's fuel under this section, it is necessary to examine and determine whether the utility has made every reasonable effort to costs associated with the operation of its nuclear generation "giving due regard to reliability of while economical generation mix, generating experience of comparable and minimization of the total cost of providing facilities Staff also examined records to determine if the utility service." achieved an adjusted capacity factor for the period under review of 92.5% as required by the statute to presume cost minimization.

HISTORY OF THE CUMULATIVE RECOVERY ACCOUNT

Exhibit No. 9 is a history of the cumulative recovery account balances from inception in 1979 to December 1996.

CALCULATION OF BASE RATE FUEL COST COMPONENT FOR APRIL 1997 THROUGH MARCH 1998.

Utilizing the currently projected sales and fuel cost figures for the period April 1997 through March 1998 and including the projected over-recovery balance of \$ \$186,139 in the cumulative recovery account through December 1996 (See Accounting Exhibit G), the average fuel expense is estimated to be 1.1215 cents per kilowatt-hour. Applying this fuel factor to the period would create an ending period estimated \$11,175 over-collection in the cumulative recovery account.

The Commission has consistently expressed its expectation that the Company exercise all reasonable prudence and efficiency in its fuel purchasing practices and aggressively control the operation and maintenance of its production facilities to assure the lowest fuel costs possible. Also, the Commission has directed the Staff to monitor the Company's plant operations and fuel purchasing to insure that any inefficient or negligent practice is brought to the Commission's attention.

Exhibit No. 10 is a table of Projections of the Cumulative Recovery Account for various fuel base levels for the twelve month period ending March 1998. Also indicated in the table are the projected results using the current fuel factor base component and the Company's proposed factor of 1.122 cents/KWH.

CAROLINA POVJER & LIGHT COMPANY POWER PLANT PERFORMENCE DATA (%) REPORT

CAPACITY FACTOR	MA RATIING	TI EI	YEAR 1994	YEAR 1995	YEAR 1996	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	MU 1996	JE 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
BRINSVICK 1 BRINSVICK 2 HARRIS 1 ROBINSON 2	767 754 860 883	52.0 50.0 78.9 64.1	88.6 72.8 80.4 77.7	86.0 94.1 78.9 86.1	84.7 78.3 93.6 91.0	89.1 61.4 98.8 105.5	104.9 3.1 101.5 106.3	77.0 31.0 73.4 105.6	104.3 98.3 91.2 105.6	102.0 103.8 94.1 103.9	99.8 102.8 99.8 102.0	74.0 68.7 99.5 101.6	100.3 96.7 99.5 100.3	76.4 67.1 76.3 21.4	11.2 102.9 96.0	73.3 103.0 102.3 106.9	106.5 98.2 90.8 107.3
TOTAL NUCLEAR	3064	57.7	80.0	80.0 86.1	87.0	88.6	79.2	71.0	99.4	100.6 101.0	101.0	86.0	99.2	61.8	6.09	96.2	100.2
										(1			
AVAILABILITY FACTOR	MW RATING	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 31996	MIL 5	JUL 1996	AUG 6 1996	G SEP 6 1996	P 0CT 6 1996	I NOV 6 1996	W DEC 6 1996	los			
MAYO 1 ROXBORO 2	745	100.0	10.01			1		1	' '			, ,		loo			
ROXBORO 3 ROXBORO 4	707	100.0	100.0 92.6	100.0	100.0	97.2	2 100.0	100.0	0 100.0	0.89.0	0 100.0	73.6	6 51.9 0 100.0	60			
BRUNSWICK 1 BRUNSWICK 2	75 75 74	93.8 100.0	100.0						• • • •					00			
EARRIS 1 RORTNSON 2	88	98.5 100.0	10.01											4.0			
					Ш	Ш		ll.	1				1	,			

CAROLINA POVER & LIGHT COMPANY NUCLEAR UNIT OUTAGE REPORT

BRUNSWICK UNIT 1

REASON FOR OUTAGE AND CORRECTIVE ACTION	During routine testing, a degrading trend in the time required to insert the control rods was observed. The control rod drives are required to insert control rods within a specific time. While initial testing showed control rod drive insertion was within specifications, the observed trend led to additional testing that confirmed the problem, and the unit was removed from service for repairs. Faulty scram pilot valves were rebuilt, control rod drive testing was satisfactorily completed, and the unit was returned to service.	The unit was taken off-line to replace internal bolts in the plant's service water pumps. The bolts had become susceptible to cracking due to galvanic corrosion which resulted in the pumps being declared technically inoperable. The bolts were replaced on the safety-related service water pumps as well as the normal service water pumps. The unit was returned to service when work had been completed on enough pumps to ensure adequate service water supply.	As required by the plant's operating license, the unit was taken off-line as Hurricane Bertha approached the plant site. Following the required outage, the plant was returned to service.	As required by the plant's operating license, the unit was taken off-line as Hurricane Fran approached the plant site. Following the required outage, the plant was returned to service.
HOURS/TYPE*	45.58/F	155.43/F	163.29/F	122.50/F
DATE ON	01/25/96	03/24/96	07/17/96	09/10/96
DATE OFF	01/23/96	03/18/96	07/11/96	96/50/60
NO.	i;	2.	m m	

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CAROLINA POWER & LIGHT COMPANY NUCLEAR UNIT OUTAGE REPORT

REASON FOR OUTAGE AND CORRECTIVE ACTION	The unit was removed from service for scheduled refueling, modifications, required testing and periodic, preventive, and corrective maintenance. Planned outage activities were completed, and the unit was returned to service.	The unit was taken out of service for scheduled refueling, planned maintenance, turbine modifications and required testing. The outage was extended to repair steam leaks from the moisture reheater separator manways. Refueling, turbine modifications, planned maintenance, inspections, and testing were completed and the unit was returned to service.	The unit was taken off-line to replace internal bolts in the plant's service water pumps. The bolts had become susceptible to cracking due to galvanic corrosion which resulted in the pumps being declared technically inoperable. The bolts were replaced on the safety related service water pumps as well as the normal service water pumps. The unit was returned to service when work had been completed on enough pumps to ensure adequate service water supply.	The unit was taken off-line to repair a feedwater heater level control valve. The reactor remained critical to minimize the overall outage duration. Repairs were completed and the unit was returned to service.	As required by the plant's operating license, the unit was taken off-line as Hurricane Bertha approached the plant site. Following the required outage, the plant was returned to service.
HOURS/TYPE*	804.48/S	BRUI 973.39/S	112.32/F	23.17/F	153.44/F
DATE ON	11/07/96	03/14/96	03/22/96	04/28/96	07/17/96
DATE OFF	10/05/96	02/02/96	03/17/96	04/27/96	07/11/96
NO.	ហំ	÷	2.	က်	4

returned to service.

CAROLINA POVER & LIGHT COMPANY NUCLEAR UNIT OUTAGE REPORT

REASON FOR OUTAGE AND CORRECTIVE ACTION	The unit was taken off-line to repair a heater level control valve. The outage was deferred to a lower-load period over the weekend. Repairs were completed and the unit was returned to service.	·- M C	HAKKLIS UNLT 1	The unit was removed from service to repair a feedwater heater which had exhibited reduced flow and to inspect a second feedwater heater as a precaution. Inspection determined that an impingement plate had broken loose from its mounting inside of the first heater and was causing the reduced flow. Inspection of the second heater also found a loose impingement plate. Weld repairs were made and the unit was returned to service.	The unit was taken off-line to test the emergency power supply sequencers which had been declared inoperable. Sequencer testing was satisfactorily completed on March 23. The outage was extended to repair a broken valve stem on a main feedwater isolation valve and to repair condenser tube leaks. Outage activities were completed and the unit was returned to service.	The unit tripped off-line when an "A" phase disconnect failed resulting in generator lockout. The failed breaker was replaced, and the unit was
HOURS/TYPE*	43.28/F	198.01/F	HAU	129.30/s	184.57/F	51.09/F
DATE ON	07/28/96	09/13/96		01/01/96	03/30/96	04/28/96
DATE OFF	07/26/96	96/50/60		12/27/95	03/22/96	04/25/96
NO.	ហំ	•		÷	2.	m m

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CAROLINA POWER & LIGHT COMPANY NUCLEAR UNIT OUTAGE REPORT

NUCLEAR UNIT OUTAGE REPORT	HOURS/TYPE* REASON FOR OUTAGE AND CORRECTIVE ACTION	.12/F The unit was separated from the grid by the failure of a main output breaker. Two breaker disconnects which had exhibited overheating were replaced and the unit was returned to service.	8.00/F The unit was forced off-line by failure of the "B" service water pump. Restart was delayed by the approach of Hurricane Fran and subsequent storm damage to the plant's emergency sirens. Approximately 68 hours of the outage duration resulted from Hurricane Fran. Service water pump repairs were made and restoration of an adequate number of emergency sirens was completed for plant restart. The unit was then returned to service.	.52/F The unit experienced a turbine steam leak and was taken off line for weld repairs to the turbine piping. Weld repairs were completed and the unit was returned to service.	ROBINSON UNIT 2	1,021.23/S The unit was removed from service for scheduled refueling, modifications, required testing and periodic, preventative and corrective maintenance. Outage activities were completed and the unit was returned to service.	.10/F During power ascension following the refueling outage, the "B" feedwater regulator valve failed in the open position resulting in a high steam generator water level and a reactor trip. Repairs were made to the failed valve and the unit was returned to service.	00/S The unit was removed from service for scheduled turbine overspeed trip test. Testing was completed satisfactorily and the unit was returned to service.
NUC	HOURS/T	21.12/F	148.00/F	63.52/F		1,021.2	16.10/F	1.00/s
	DATE ON	05/04/96	09/10/96	12/22/96		10/20/96	10/21/97	10/21/96
	DATE OFF	05/03/96	96/20/60	12/19/96		96/20/60	10/20/96	10/21/96
	NO.	4.	'n	•		r i	2.	က်

CAROLINA POWER & LIGHT COMPANY FOSSIL UNIT OUTAGE REPORT (100 HRS OR GREATER DURATION) January 1, 1996 - December 31, 1996

HRS, 1 2,4 1 1 oro 2 106	2 0 2	/TYPE* REASON FOR OUTAGE AND CORRECTIVE ACTION			scheduled turbine overhaul, boiler inspection, planned maintenance and required testing. The series of brief off-line periods after the unit was initially synchronized was required for turbine balance adjustments and combustion/steam flow control fine tuning. A major turbine overhaul including turbine control upgrade was completed. Additionally, extensive generator inspections, boiler chemical cleaning, economizer maintenance and fuel handling equipment overhaul as well as other preventive corrective and periodic maintenance, inspections and tests were performed. Outage activities were completed and the unit was returned to service.	Outage is continued from March. See above description.	18/S During a period of low demand, the unit was taken out of service to make weld repairs to a superheater inlet header drain line and fo
	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	HRS,	one	one	1 2,42	1	73

REASON FOR OUTAGE AND CORRECTIVE ACTION	Outage is continued from March. See above description.	Outage is continued from April. See above description.	The unit was taken out of service for a scheduled boiler overhaul, turbine inspection and maintenance, other planned maintenance and required testing. A brief off-line period was required after the unit was initially synchronized in order to make turbine balance adjustments. The boiler overhaul was completed as planned. Other outage activities included maintenance work on the air preheaters, feedwater heaters and coal burners as well as miscellaneous preventive and corrective maintenance and required testing. Following completion of outage activities, the unit was returned to service.	Outage is continued from March. See above description.	Outage is continued from May. See description on Page One.			The unit was taken out of service for the annual boiler inspection, a major turbine overhaul, modifications, required testing and periodic, preventative and corrective maintenance.
HRS/TYPE*			491.32/S					2633.06/s
	r-l	ro 2	л О Д	i 	ro 4	i i 		ro 2
NAME	Мауо	Roxboro	Roxboro	Mayo	Roxboro	None	None	Roxboro
MONTH	96 2			1 96		96	3 96	96
MOM	Мау			Jun		Jul	Aug	Sep

MONTH	NAME	HRS/TYPE*	REASON FOR OUTAGE AND CORRECTIVE ACTION
Oct 96	Roxboro 2		Outage is continued from September. See above description.
Nov 96	Roxboro 2		Outage is continued from September. See above description.
	Roxboro 3	548.18/S	The unit was taken out of service for an annual boiler inspection and boiler overhaul, modifications, required testing and periodic, preventative and corrective maintenance. Annual boiler overhaul and inspection was completed. Plant modifications were installed. Periodic and preventive maintenance was performed. Required testing was completed and the unit was returned to service.
Dec 96	Roxboro 2	400 Care	Outage in continued from September. See above description.
	Roxboro 3		Outage is continued from November. See above description.
 Type*	S-scheduled	F-forced	

CAROLINA POWER & LIGHT COMPANY

GENERATION MIX

JANUARY 1, 1996 - DECEMBER 31, 1996

MONTH	FOSSIL (MWH)	%	NUCLEAR (MWH)	%	HYDRO (MWH)	%	TOTAL (MWH)
JANUARY	2,383,062	56.12	1,762,005	41.49	101,290	2.39	4,246,357
FEBRUARY	2,299,701	58.95	1,485,430	38.08	115,964	2.97	3,901,095
MARCH	2,474,195	61.85	1,431,105	35.78	95,006	2.37	4,000,306
APRIL	1,340,485	40.47	1,896,002	57.25	75,584	2.28	3,312,071
MAY	1,563,702	43.20	1,983,281	54.79	72,957	2.01	3,619,940
JUNE	1,994,980	50.09	1,925,557	48.34	62,411	1.57	3,982,948
JULY	2,575,972	59.65	1,709,474	39.59	32,883	0.76	4,318,329
AUGUST	2,366,372	54.08	1,953,355	44.64	56,126	1.28	4,375,853
SEPTEMBER	2,083,624	63.38	1,143,282	34.78	60,639	1.84	3,287,545
OCTOBER	2,125,591	63.40	1,172,678	34.97	54,558	1.63	3,352,827
NOVEMBER	1,974,388	50.98	1,843,625	47.60	54,874	1.42	3,872,887
DECEMBER	1,745,104	45.65	1,978,176	51.74	99,789	2.61	3,823,069
TOTAL	24,927,176	54.08	20,283,970	44.01	882,081	1.91	46,093,227

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CAROLINA POWER & LIGHT COMPANY GENERATION STATISTICS OF CP&L PLANTS JANUARY 1, 1996 - DECEMBER 31, 1996

AVERAGE FUEL COST GENERATION (CENTS/KWH*) (MWH) TYPE FUEL PLANT 0.43 5,924,887 Nuclear Harris 0.46 5,460,101 Nuclear Robinson 2 0.51 4,661,848 Nuclear Brunswick 1 4,237,136 0.52 Nuclear Brunswick 2 944,349 Coal 1.41 Robinson 1 482,020 1.80 Weatherspoon Coal 1.25 2,682,109 Asheville Coal 12,595,757 1.78 Coal Roxboro 2,364,556 1.61 Sutton Coal 1.67 1,809,297 Coal Cape Fear 2.10 2,684,125 Mayo Coal 1,306,917 1.82 Coal Lee

^(*) The average fuel costs for coal-fired plants include oil cost for start-up and flame stabilization.

CAROLINA POWER & LIGHT COMPANY SOUTH CAROLINA RETAIL COMPARISON OF ESTIMATED TO ACITIAL ENERGY SALES

198

TOTAL	529,471 533,994 562,940 6,686,726	513,315 519,762 582,940 613,288 650,683 591,575 522,962 513,771 555,788 6,746,899	7,152 -60,173	1.29%89%
NOV DEC	533,994 562	513,771 555	20,223	3.94%
E	529,471	522,962	6,509	1.25%
SEPT.	699,189	591,575	5,957 -42,734 107,614	18.19%
AUG	619,245 607,949	650,683	42,734	6.57%
JULY	3 619,245	613,288		%6. %
JUNE	79 544,328	52 582,94(33 -38,612	3% -6.6%
II. MAY	462,662 484,279 544,328	315 519,7	-50,653 -35,483 -38,612	-9.87% -6.83% -6.62%
A APRIL			8,979 –50,	1.79% –9.
JAN FEB MARCH	578,805 552,304 511,560	595,227 585,007 502,581		
FEB	5 552,3	17 585,(-16,422 -32,703	-2.76% -5.59%
JAN	578,80			-2.76
	[1] ESTIMATED SALES [MWE]	[2] ACTUÁL SALES [MMF]	[3] AMOUNT DIFFERENCE [1]-[2]	[4] PERCENT DIFFERENCE

CAROLINA POWER & LIGHT COMPANY SOUTH CAROLINA RETAIL COMPARISON OF ESTIMATED TO ACTUAL FUEL COSTS

1996

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
[1] ORIGINAL PROJECTION	1.440	1.375	1.223	1.223 1.043 1.322	1.322	1.585	1.606	1.454 1.207 1.448	1.207	1.448	1.210	1.286
[2] ACTUAL EXPERIENCE	1.336	1.318	1.556	1.064	1.329	1.064 1.329 1.449 1.590 1.294 1.286 1.475 1.264	1.590	1.294	1.286	1.475	1.264	1.115
[3] AMOUNT IN BASE	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340 1.340 1.340 1.340 1.340 1.340	1.340	1.340	1.340	1.340
[4] VARIANCE FROM ACTUAL [1-2]/[2]	7.78%	4.32%	-21.4% -1.97%	-1.97%	53%	9.39%	9.39% 1.01%	12.36%	-6.14%	12.36% -6.14% -1.83% -4.27% 15.34	-4.27%	15.34

ANGLEDU LIBET ÇΫ Projected To Actual Fuel Costs 797 ď CAROLHEA POWER Z 質の PROJECTED ACTUAL 360 1.80-0.50 1.60-Ů. BŮ-1.40 2.00 1.00 1.30 PER

Carolina Power & Light Company (South Carolina Only)

RIDER NO. 39P

ADJUSTMENT FOR FUEL COSTS

APPLICABILITY

This adjustment is applicable to and is a part of the Utility's South Carolina retail electric rate schedules.

The Public Service Commission has determined that the costs of fuel in an amount to the nearest one-thousandth of a cent, as determined by the following formula, will be included in the base rates to the extent determined reasonable and proper by the Commission:

$$F = \frac{E}{S} + \frac{G}{S_1}$$

Where:

- F = Fuel cost per kilowatt-hour included in base rate, rounded to the nearest one-thousandth of a cent.
- E = Total projected system fuel costs:
 - Fuel consumed in the Utility's own plants and the Utility's share of fuel consumed in jointly owned or leased plants. The cost of fossil fuel shall include no items other than those listed in Account 151 of the Commission's Uniform System of Accounts for Public Utilities and Licensees. The cost of nuclear fuel shall be that as shown in Account 518 excluding rental payments on leased nuclear fuel and except that, if Account 518 also contains any expense for fossil fuel which has already been included in the cost of fossil fuel, it shall be deducted from this account.

Plus

(B) Purchased power fuel costs such as those incurred in unit power and Limited Term power purchases where the fuel costs associated with energy purchased are identifiable and are identified in the billing statement.

<u>Plus</u>

(C) Interchange power fuel costs such as Short Term, Economy, and other where the energy is purchased on economic dispatch basis.

Energy receipts that do not involve money payments such as Diversity energy and payback of storage energy are not defined as purchased or interchange power relative to this fuel calculation.

<u>Minus</u>

(0) The cost of fuel recovered through intersystem sales including the fuel costs related to economy energy sales and other energy sold on an economic dispatch basis.

Energy deliveries that do not involve billing transactions such as Diversity energy and payback of storage are not defined as sales relative to this fuel calculation.

- S = Projected system kilowatt-hour sales excluding any intersystem sales.
- G = Cumulative difference between jurisdictional fuel revenues billed and fuel expenses at the end of the month preceding the projected period utilized in E.and S.
- $S_1 = Projected$ jurisdictional kilowatt-hour sales for the period covered by the fuel costs included in E.

The appropriate revenue related tax factor is to be included in these calculations.

The fuel cost (F) as determined by Public Service Commission of South Carolina is 1.340 cents per kilowatt-hour, which shall remain in effect until superseded by a subsequent Commission order.

Supersedes Rider No. 39N

Effective for bills rendered on and after April 1, 1995

CAROLINA POWER & LIGHT COMPANY HISTORY OF CUMULATIVE RECOVERY ACCOUNT

PERIOD ENDING				OVER (UNDER)\$
March 1979 - Automatic December 1979	Fuel	Adjustment	in	Effect 1,104,730
September 1980			((12,000,131)
March 1981			(4,060,364)
August 1981			((12,113,832)
March 1982			(935,412)
September 1982			(6,881,796)
March 1983			•	2,259,114)
September 1983			(3,264,694)
March 1984				109,270
September 1984				2,172,859
March 1985			(2,317,008)
September 1985				745,913
March 1986				1,972,280
September 1986			(696,805)
March 1987				2,408,354
September 1987				3,310,059
March 1988			(3,964,888)
September 1988		,	(5,737,541)
March 1989			(8,125,496)
September 1989 '			(5,875,641)
March 1990			(9,311,149)
September 1990			(658,614)
March 1991				1,403,023
September 1991				4,661,988
March 1992				5,201,112
September 1992				(6,712,920)
March 1993				(9,563,180)
September 1993				0 *
March 1994				(1,010,684)
September 1994				1,975,939
March 1995				7,408,161
September 1995				2,011,489
December 1996				186,139

^{*} Eliminated (\$14,011,263), Per Order No. 93-865.

CAROLINA POWER & LIGHT COMPANY

PROJECTIONS OF THE CUMULATIVE RECOVERY ACCOUNT FOR THE TWELVE MONTH PERIOD ENDING MARCH 1998

	FUEL BASE	PROJECTED CUMULATIVE OVER\(UNDER) RECOVERY [\$]
	1.1150	(450,803)
ZERO UNDER	1.1214	(28,755)
ZERO OVER	1.1215	11,175
COMPANY PROPOSED	1.1220	41,586
	1.1400	1,307,728
	1.1650	3,066,258
	1.1900	4,824,789
	1.2150	6,583,319
	1.2400	8,341,850
	1.2650	10,100,380
	1.2900	11,858,911
	1.3150	13,617,441
CURRENT FACTOR	1.3400	15,375,972
	1.3650	17,134,502
	1.3900	18,893,032
	1.4150	20,651,563
	1.4400	22,410,093
	1.4650	24,168,624